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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/825,448	04/02/2001	Richard D. Cramer	3017-40	1816
22448	7590 10/17/2006		EXAM	INER
LAURENCE A WEINBERGER			CHERRY, STEPHEN J	
SUITE 103	882 S. MATLACK ST. SUITE 103			PAPER NUMBER
WEST CHES	ΓER, PA 19382		2863	
•			DATE MAILED: 10/17/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		IV.	\mathcal{N}			
		Application No.	Applicant(s)			
Office Action Summary		09/825,448	CRAMER			
		Examiner	Art Unit			
		Stephen J. Cherry	2863			
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet w	vith the correspondence address			
WHIC - Exte after - If NC - Failt Any	IORTENED STATUTORY PERIOD FOR RECHEVER IS LONGER, FROM THE MAILING ensions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by state that the model patent term adjustment. See 37 CFR 1.704(b).	COMMUN R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MO atute, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 0.	3 October 2006.				
2a)	This action is FINAL . 2b)⊠ 7	his action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims		•			
5)□ 6)⊠ 7)□	Claim(s) 1-7 is/are pending in the application 4a) Of the above claim(s) is/are without claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	drawn from consideration.				
Applicat	ion Papers					
9)[The specification is objected to by the Exam	niner.				
10)⊠	10) \boxtimes The drawing(s) filed on <u>4-2-2001</u> is/are: a) \boxtimes accepted or b) \square objected to by the Examiner.					
	Applicant may not request that any objection to	- · · ·				
11)	Replacement drawing sheet(s) including the cor The oath or declaration is objected to by the	•				
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for fore All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But See the attached detailed Office action for a	ents have been received. ents have been received in priority documents have been reau (PCT Rule 17.2(a)).	Application No en received in this National Stage			
Attachmei	nt(s) ce of References Cited (PTO-892)	· 4) 🔲 Interview	v Summary (PTO-413)			
2) Noti 3) Info	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	Paper N	o(s)/Mail Date f Informal Patent Application			

Application/Control Number: 09/825,448

Art Unit: 2863

DETAILED ACTION

Claim Rejections - 35 USC § 101

In view of the following rejection, the indication of allowance of claims 2-7 in the prior Office Actions is withdrawn.

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims merely recite an algorithm for manipulating data in a computer and no tangible result, such as a display, is produced.

For further information regarding current Office interpretation of 35 U.S.C. 101, please reference the OG announcement at the following web page:

http://www.uspto.gov/web/offices/com/sol/og/2005/week47/patgupa.htm

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by International Application Publication Number WO 99/44055 to Nicholls.

Application/Control Number: 09/825,448 Page 3

Art Unit: 2863

With regard to claim 1 Nicholls discloses a computer implemented method to search a heterogeneous compound database composed of molecules from different sources and syntheses, some known and some unknown, for molecules which have the same biological activity as a known query molecule (see abstract) comprising the steps of fragmenting a query molecule and a database molecule according to a defined set of rules (see page 10 line 25), generating shape descriptors for the query molecule fragments and for the database molecules fragments (see page 22 line 10-19), and using the shape descriptors identifying the database molecule which has a shape similar to the query molecule (see page 25 line 5-26).

Allowable Subject Matter

Claims 2-7 are rejected under 35 U.S.C. 101, as described above, but would be allowable if rewritten including all of the limitations of the base claim and any intervening claims, and to overcome the above rejection.

The following is a statement of reasons for the indication of allowable subject matter:

The reason for indication of allowable subject matter is as stated in the office action dated 10-6-2004.

Response to Arguments

Applicant's arguments filed 10-3-2006 have been fully considered but they are not persuasive.

Applicant states that Nicholls does not teach generating shape descriptors for the query molecule fragments and for the database molecule fragments, however, as stated in the abstract, Nicholls discloses the breaking of molecules to examine aspects of particular molecules and storing that information in a database. This database is described at shape space, at page 22, line 16, with a comparison of molecule for similar shape is disclosed at page 24, line 9 to page 25, line 26).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen J. Cherry whose telephone number is (571) 272-2272. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 09/825,448

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

SJC

John Barlow

Technology Center 2:00

Page 5